

**Listing of Claims:**

1. (Currently Amended) A liquid crystal display device comprising:

(i) a liquid crystal element comprising:

a front substrate which is arranged at a front side of  
5 the liquid crystal element, which corresponds to a viewing screen  
side of the display device;

a back substrate which is arranged at a back side of  
said front substrate so as to be opposed to said front substrate;

at least one first electrode which is formed on an  
10 internal surface of said front substrate, which is opposed to an  
internal surface of said back substrate;

at least one thin film transistor which is arranged on  
the internal surface of said back substrate and driven by a drive  
signal;

15 at least one second electrode which: (i) comprises a  
transparent conductive film, (ii) is arranged on the internal  
surface of said back substrate so as to be opposed to said at  
least one first electrode, and (iii) is connected to said thin  
film transistor, thereby forming at least one pixel in a region  
20 that does not overlap with a region where the thin film  
transistor is formed and that is included in an area where said  
at least one first electrode and said at least one second  
electrode are opposed to each other;

a liquid crystal layer which is sandwiched between said front substrate and said back substrate;

at least one reflective film which comprises a metal film and is positioned between said second electrode and the internal surface of said back substrate, such that an entire surface of the reflective film is directly in surface-contact with a surface of said second electrode that faces the internal surface of said back substrate, and so as to correspond to a part of said region in which said at least one pixel is formed that does not overlap with the region where the thin film transistor is formed, such that a reflective portion for reflecting incident light and a transmissive portion, in a region other than said reflective portion, for transmitting incident light are formed in said at least one pixel;

a color filter which is provided on one of the internal surface of the front substrate and the internal surface of the back substrate so as to correspond to said at least one pixel, and which has an opening formed by removing said color filter at a position such that said opening corresponds to a part of said reflective portion, which is in said region that does not overlap the region where said thin film transistor is formed; and

a liquid crystal layer thickness adjusting layer which is provided in at least a region corresponding to said reflective portion between said front substrate and said back substrate, in

order to set a thickness of said liquid crystal layer in said reflective portion to be thinner than a thickness of said liquid crystal layer in said transmissive portion;

(ii) a front polarizing plate and a back polarizing plate which are arranged at the front side and a back side of said liquid crystal element, respectively; and

(iii) a backlight which is arranged at a back of said back polarizing plate.

2. (Withdrawn) The liquid crystal display device according to claim 1, wherein a thickness of said liquid crystal layer thickness adjusting layer is set such that a thickness of said color filter in said reflective portion is thinner than a thickness of said color filter in said transmissive portion.

3. (Previously Presented) The liquid crystal display device according to claim 1, wherein a thickness of said liquid crystal layer thickness adjusting layer is set such that a thickness of said color filter in said reflective portion is equal to a thickness of said color filter in said transmissive portion.

4. (Withdrawn) The liquid crystal display device according to claim 1, wherein a thickness of said liquid crystal layer thickness adjusting layer is set such that a thickness of said

color filter in said reflective portion is thinner than a  
5 thickness of said color filter in said transmissive portion.

5. (Withdrawn) The liquid crystal display device according to claim 4, further comprising a flattening film which is formed on said color filter in order to flatten a surface of said color filter, which has different thicknesses.

6. (Withdrawn) The liquid crystal display device according to claim 4, wherein said liquid crystal element is an STN (Super Twisted Nematic) liquid crystal display element.

7. (Original) The liquid crystal display device according to claim 1, wherein said liquid crystal element comprises a homogeneous liquid crystal layer in which liquid crystal molecules are oriented substantially in parallel with surfaces of  
5 a pair of substrates without being twisted between the substrates in a non electric field state where no electric field is applied.

8. (Previously Presented) The liquid crystal display device according to claim 1, wherein said liquid crystal layer thickness adjusting layer comprises a transparent insulation film.

Claim 9 (Canceled).

10. (Previously Presented) The liquid crystal display device according to claim 1, wherein said liquid crystal layer thickness adjusting layer fills said hole formed in said color filter.

11. (Previously Presented) The liquid crystal display device according to claim 1, wherein said liquid crystal layer thickness adjusting layer fills said hole formed in said color filter and covers said color filter.

12. (Withdrawn) The liquid crystal display device according to claim 1, wherein:

said liquid crystal layer thickness adjusting layer is formed on a surface of one of said front substrate and said back substrate; and

said color filter is formed such that a part of said color filter covers said liquid crystal layer thickness adjusting layer.

13. (Previously Presented) The liquid crystal display device according to claim 1, wherein said reflective layer comprises a reflective surface on which depressions and protrusions are formed.

14. (Previously Presented) The liquid crystal display device according to claim 1, wherein:

5 a value of a product  $\Delta n \cdot d_1$  of a thickness  $d_1$  and a refractive index anisotropy  $\Delta n$  of said liquid crystal layer in said reflective portion is set to a value which makes said liquid crystal layer provide a retardation of  $1/4$  wavelength to light transmitted therethrough in a non electric field state in which substantially no electric field is applied between the first and second electrodes opposed to each other; and

10 a value of a product  $\Delta n \cdot d_2$  of a thickness  $d_2$  and a refractive index anisotropy  $\Delta n$  of said liquid crystal layer in said transmissive portion is set to a value that makes said liquid crystal layer provide a retardation of  $1/2$  wavelength to light transmitted therethrough in the non electric field state.

15. (Previously Presented) The liquid crystal display device according to claim 14, further comprising a front retardation plate and a back retardation plate which are respectively arranged between said front polarizing plate and said liquid crystal layer and between said back polarizing plate and said liquid crystal layer such that slow axes thereof are orthogonal to each other, and which provide a retardation of  $1/4$  wavelength to light transmitted therethrough;

wherein said front polarizing plate and said back polarizing  
10 plate are arranged such that the transmission axes thereof are  
orthogonal to each other; and

wherein said front retardation plate is arranged so as to  
cancel the retardation provided to the light transmitted  
therethrough by said liquid crystal layer in the non electric  
15 field state.

16. (Previously Presented) The liquid crystal display  
device according to claim 15, further comprising a scattering  
reflective plate which is arranged between said front polarizing  
plate and said liquid crystal layer and which scatters a portion  
of light incident thereon.

17. (Currently Amended) A liquid crystal display device  
comprising:

(i) a liquid crystal element comprising:

a front substrate which is arranged at a front side of  
5 the liquid crystal element, which corresponds to a viewing screen  
side of the display device;

a back substrate which is arranged at a back side of  
said front substrate so as to be opposed to said front substrate;

at least one opposite electrode which is formed on an  
10 internal surface of said front substrate;

a plurality of thin film transistors which are arranged on an internal surface of said back substrate and which are driven by a drive signal;

15 a plurality of pixel electrodes, each of which comprises a transparent conductive film, and which: (i) are arranged on the internal surface of said back substrate so as to be opposed to said at least one opposite electrode, and (ii) are connected to said thin film transistors, thereby forming a plurality of pixels in areas where said at least one opposite  
20 electrode and said plurality of pixel electrodes are opposed to each other;

a liquid crystal layer which is sandwiched between said front substrate and said back substrate;

25 a plurality of reflective films, each of which comprises a metal film, which are positioned between the plurality of pixel electrodes and the internal surface of said back substrate so as to such that an entire surface of each of the plurality of reflective films is directly in surface-contact with a corresponding one of the pixel electrodes at a surface of  
30 the pixel electrode that faces the internal surface of said back substrate, and such that the plurality of reflective films respectively correspond to parts of regions, in which said plurality of pixels are formed and which do not overlap with regions where said thin film transistors are formed, such that a



35 reflective portion for reflecting incident light and a  
transmissive portion, in a region other than said reflective  
portion, for transmitting incident light are formed in each of  
said plurality of pixels;

a color filter which is provided on the internal  
40 surface of said front substrate so as to correspond to said  
plurality of pixels, and

liquid crystal layer thickness adjusting layers which  
are provided in regions corresponding to at least said reflective  
portions on said color filter, in order to set a thickness of  
45 said liquid crystal layer in said reflective portions to be  
thinner than a thickness of said liquid crystal layer in said  
transmissive portions;

(ii) a front polarizing plate and a back polarizing plate  
which are arranged at the front side and a back side of said  
50 liquid crystal element, respectively; and

(iii) a backlight which is arranged at a back of said back  
polarizing plate.

18. (Previously Presented) The liquid crystal display  
device according to claim 17, wherein:

thicknesses of said respective liquid crystal layer  
thickness adjusting layers are set such that a thickness of said

5       color filter in said reflective portions is equal to a thickness  
of said color filter in said transmissive portions;

          said color filter has holes formed by removing parts of said  
color filter at portions corresponding to said reflective  
portions of said plurality of pixels; and

10       said liquid crystal layer thickness adjusting layers fill  
said holes formed in said color filter and cover said color  
filter.

Claims 19 and 20 (Canceled).